

IN THE CLAIMS:

Please amend claims as follows:

1. (Currently Amended) An embolic coil comprising:

an elongated core element formed of a shape memory material treated to define a memorized secondary coil shape;

an elongated outer element wound around the elongated core element to define a primary coil shape of the embolic coil; and

a plurality of fibers gripped between adjacent coils of the primary coil and held in place therebetween by friction.
2. (Original) The embolic coil according to claim 1, wherein the shape memory material of which the elongated core element is formed is, at an operational temperature of the embolic coil, in an austenitic phase.
3. (Canceled)
4. (Canceled)
5. (Original) The embolic coil according to claim 1, wherein a shape of the primary coil is defined by applying cold work to the elongated outer element.
6. (Original) The embolic coil according to claim 1, wherein the memorized shape of the elongated core element is substantially a coil.
7. (Original) The embolic coil according to claim 1, wherein the memorized shape of the

elongated core element is substantially a three dimensional spiral.

8. (Original) The embolic coil according to claim 1, wherein the shape memory material of which the elongated core element is formed includes Nitinol.
9. (Original) The embolic coil according to claim 1, wherein the elongated outer element is formed of platinum.
10. (Original) The embolic coil according to claim 1, wherein the primary coil shape is a substantially cylindrical coil.
11. (Original) The embolic coil according to claim 1, further comprising a plurality of fiber retention grooves formed on the elongated core element.
12. (Original) The embolic coil according to claim 1, wherein the elongated outer element comprises a platinum wire co-wound with a wire formed of a shape memory material.
13. - 23. (Canceled)
24. (Currently Amended) A coiled medical device for implantation in a patient comprising:

a primary coil having a primary coil shape, the primary coil defining a lumen extending therethrough;

a secondary coil formed of a shape memory material and disposed in the lumen, the secondary coil having a secondary coil memorized shape, wherein, when heated to a temperature above a critical temperature of the shape memory material, the secondary coil causes the primary coil to follow the secondary coil shape; and

a plurality of fibers gripped between adjacent coils of the primary coil and held therebetween by friction.

25. (Canceled)

26. (Original) The medical device according to claim 24, wherein the shape memory material includes Nitinol.

27. (New) An embolic coil comprising:

an elongated core element formed of a shape memory material treated to define a memorized secondary coil shape, the elongated core including a plurality of fiber retention grooves formed in an outer surface thereof;

an elongated outer element wound around the elongated core element to define a primary coil shape of the embolic coil; and

a plurality of fibers held within the first fiber retention grooves.

28. (New) The embolic coil of claim 27, wherein the fiber retention grooves extend circumferentially about the elongated core element.

29. (New) The embolic coil of claim 27, wherein the fiber retention grooves extend about the elongated core element along a spiral path.